

## Lichenase 26A from *Clostridium thermocellum*, Recombinant

Cat. No. NATE-1426

Lot. No. (See product label)

### Introduction

**Description**  $\beta$ -glucanases degrade  $\beta$ -1,4-glucans of cellulose, xyloglucan and  $\beta$ -1,4-xylan.  $\beta$ -Glucanase represents a group of carbohydrate enzymes which break down glycosidic bonds within beta-glucan. It forms the main constituent of fungal cell walls and could be a potential structural and storage polysaccharide of marine macro-algae. It has the ability to degrade fungal cell walls and may be involved in defense mechanism of plants against pathogenic fungi.

**Synonyms** endo-1,3- $\beta$ -D-glucanase; laminarinase; laminaranase;  $\beta$ -1,3-glucanase;  $\beta$ -1,3-1,4-glucanase; endo-1,3- $\beta$ -glucanase; endo- $\beta$ -1,3 (4)-glucanase; endo- $\beta$ -1,3-1,4-glucanase; endo- $\beta$ -(1 $\rightarrow$ 3)-D-glucanase; endo-1,3-1,4- $\beta$ -D-glucanase; endo- $\beta$ -(1-3)-D-glucanase; endo- $\beta$ -1,3-glucanase IV; endo-1,3- $\beta$ -D-glucanase; 1,3-(1,3; 1,4)- $\beta$ -D-glucan 3 (4)-glucanohydrolase; EC 3.2.1.73

### Product Information

<b>Species</b>	Clostridium thermocellum
<b>Source</b>	E. coli
<b>Form</b>	35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl <sub>2</sub> , 0.02% sodium azide and 25% (v/v) glycerol
<b>EC Number</b>	EC 3.2.1.73
<b>CAS No.</b>	37288-51-0
<b>Molecular Weight</b>	32.5 kDa
<b>Purity</b>	>90% by SDS-PAGE
<b>Activity</b>	700 U/mg
<b>Concentration</b>	3 mg/mL
<b>Optimum pH</b>	6.0-8.0
<b>Optimum temperature</b>	60 °C
<b>Specificity</b>	1,3-1,4- $\beta$ -glucans

### Storage and Shipping Information

**Storage** This enzyme is shipped at room temperature but should be stored at -20 °C.